Setup Guide

Matrix Switchers



DTP CrossPoint 84 IPCP

Scaling Presentation Matrix Switchers with DTP Extension





Safety Instructions

Safety Instructions • English

WARNING: This symbol, A, when used on the product, is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

ATTENTION: This symbol, △, when used on the product, is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equinment

For information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the Extron Safety and Regulatory Compliance Guide, part number 68-290-01, on the Extron website, www.extron.com.

Instructions de sécurité • Français

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Sicherheitsanweisungen • Deutsch

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Instrucciones de seguridad • Español

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Инструкция по технике безопасности • Русский

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Chinese Simplified (简体中文)

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Korean

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ATTENTION: The Twisted Pair Extension technology works with unshielded twisted pair (UTP) or shielded twisted pair (STP) cables; but, to ensure FCC Class A and CE compliance, STP cables and STP Connectors are required.

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Conventions Used in this Guide

Notifications

The following are used:

ATTENTION:

- · Risk of property damage.
- Risque de dommages matériels.

NOTE: A note draws attention to important information.

Software Commands

Commands are written in the fonts shown here:

Esc X1 *X4 * Y35 * Y37 * Y36 CE ←

NOTE: For commands and examples of computer or device responses mentioned in this guide, the character "Ø" is used for the number zero and "O" is the capital letter "o."

Computer responses and directory paths that do not have variables are written in the font shown here:

Reply from 208.132.180.48: bytes=32 times=2ms TTL=32 C:\Program Files\Extron

Variables are written in slanted form as shown here:

ping xxx.xxx.xxx.xxx -t
SOH R Data STX Command ETB ETX

Selectable items, such as menu names, menu options, buttons, tabs, and field names are written in the font shown here:

From the File menu, select New.

Click the **0K** button.

Specifications Availability

Product specifications are available on the Extron website, www.extron.com.

Contents

Introduction
About this Guide1 About the DTP CrossPoint Matrix
Switchers1
DTP Input and Output Signals3
Diff input and Output digitals
Installation4
Rear Panel4
Video Inputs and Outputs5
Audio Inputs and Outputs7
Serial and IR Insertion
Connections8
Control Connections8
Switcher Reset8
Power9
Additional Connector
Information9
Front Panel14
Front Panel Operations15
Creating a Tie15
Recalling a Preset16
Viewing Ties (and Muting Outputs) 16
Viewing and Adjusting Volume and
Mic Volume16
Setting the Front Panel Locks
(Executive Modes)17
Selecting Lock Mode 2 or
Toggling Between
Mode 2 and Mode 017
Selecting Lock Mode 2 or
Toggling Between
Mode 2 and Mode 118

Remote Control	.19
Selected SIS Commands	.19
Establishing a Network (Etherne	et)
Connection	.19
Number of Connections	.20
Establishing a USB Port	
Connection	.20
Host-to-Switcher Instructions	.20
Common SIS Command Symb	ols
20	
SIS Command and Response	
Table for Matrix Switcher	
Commands	.21
Installing the programs	.25
Starting the Product Configurat	ion
Software	.26
Starting the DSP Configurator	
Program	.28
Accessing the HTML Pages	.30

Introduction

This section gives an overview of the Extron DTP CrossPoint 84 IPCP Series matrix switchers and describes their features. Topics that are covered include:

- About this Guide
- About the DTP CrossPoint Matrix Switchers

About this Guide

NOTE: For more information on subjects in this guide, see the DTP CrossPoint 84 IPCP Series User Guide and the IPCP Pro Series User Guide available at www.extron.com.

This guide provides instructions for an experienced installer to set up and operate the Extron DTP CrossPoint 84 IPCP Scaling Presentation Matrix Switchers with DTP Extension. Step by step instructions show you how to:

- Connect the hardware
- Perform basic operations
- Use both the front panel controls and selected Simple Instruction Set (SIS) commands
- Load and start up the Microsoft® Windows®-based Product Configuration Software and DSP Configurator Program.
- Connect to the built-in HTML pages, which you can use to view the switcher status and make changes to the communications protocol and set the system clock.

About the DTP CrossPoint Matrix Switchers

The DTP CrossPoint matrix switchers distribute HDCP-compliant HDMI and Extron proprietary DTP video and audio signal types. A matrix switcher routes any input signal to any combination of outputs. It can route multiple input and output configurations simultaneously.

The fixed matrix size switchers support a total of eight inputs: six HDMI and two inputs from Extron DTP transmitting devices. The matrix switchers provide four outputs: two HDMI and two scaled DTP outputs.

The DTP CrossPoint Matrix Series consists of two 8-input by 4-output models, differentiated by their audio capabilities:

DTP CrossPoint 84 IPCP SA — Includes a stereo audio amplifier

DTP CrossPoint 84 IPCP MA 70 — Includes a 70 V mono audio amplifier

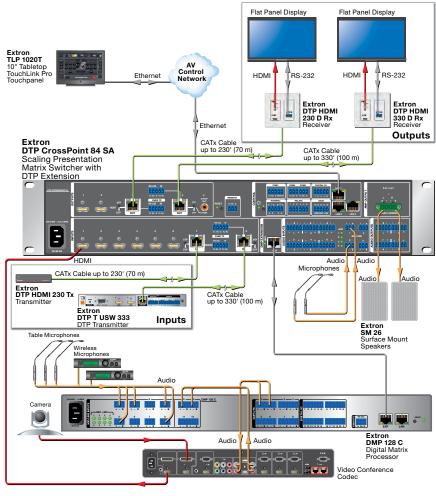


Figure 1. Typical DTP CrossPoint Application

The switchers provide four mono microphone (mic)/line level inputs that can be mixed with or across one or all audio outputs.

The switcher also features the built-in Extron IPCP Pro 350 control processor, which has local area network (LAN) Ethernet ports, RS-232 and IR-based control, relays, and digital I/O controls that can control and monitor a variety of external devices, such as projectors and lights.

The matrix switcher can be remotely controlled via Ethernet LAN ports on the IPCP control processor, a serial port, or a USB port connection using either the Extron Product Configuration Software, DSP Configurator software, or the Simple Instruction Set (SIS).

DTP Input and Output Signals

The DTP inputs and outputs are proprietary signals that are created within any of the Extron DTP Extenders systems and transmitted over a single shielded twisted pair (STP) cable.

The DTP CrossPoint accepts DTP inputs from transmitting devices such as the DTP T USW 333. Depending on the connected transmitting model, it generates the DTP signal from a variety of video and audio inputs, including HDMI, DVI, analog VGA, and embedded and analog audio. The DTP signal can also include bidirectional RS-232 and IR control signals from the connected transmitting and receiving devices or inserted locally, on the DTP CrossPoint switcher.

Depending on the technology of the transmitting or receiving device, DTP 330 or DTP 230, the TP inputs and outputs can travel up to 330 feet (100 meters) or 230 feet (70 meters) without a loss of signal integrity.

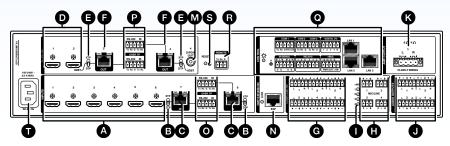
DTP CrossPoint 84 IPCP • Introduction

Installation

This section describes installation of the DTP CrossPoint matrix switchers. including connections and features. Topics that are covered include:

- Rear Panel
- Front Panel

Rear Panel



DTP CrossPoint 84 IPCP SA Switcher Rear Panel Figure 2.

ATTENTION:

- Remove system power before making all connections.
- Débranchez l'alimentation du système avant de faire n'importe quelle connexion.

NOTE: ①. below, is on the mono audio versions of the switcher and is shown on figure 5, on page 7. It is in the same location on the switcher as **6**, in figure 2.

- A HDMI Inputs 1 6 (see page 5)
- B Input TP switches (see page 5)
- © DTP Inputs 7 8 (see page 5)
- Output TP switches (see page 6)
- **DTP Outputs 3 4** (see page 6)
- G Audio Inputs 1 6 (see page 7)
- Mic/Line Inputs 1 4 (see page 7)
- **1** +48 V LEDs (see page 7)
- Audio Outputs 1 4 (see page 7)

- **& Amp Output 1** (SA model) (see page 7)
- Amp Output 1 (MA model) (see page 7)
- Expansion Port (see page 7)
- Over TP (Inputs 7 8) Ports (see page 8)
- Over TP (Outputs 3-4) Ports (see page 8)
- IPCP Pro 350 processor (see page 8)
- Remote Port (see page 8)
- Switcher Reset button (see page 8)
- Power connector (see page 8)

Video Inputs and Outputs

♠ HDMI Inputs 1 through 6 — Plug HDMI digital video (or DVI with appropriate adapters) into these HDMI ports. See HDMI connectors on page 9 to secure the connector to the board with a LockIt HDMI Cable Lacing Bracket.



■ TP (XTP/DTP) switches, inputs 7 and 8 —

ATTENTION:

- Position this switch BEFORE connecting the appropriate device to the TP connector. Failure to comply can damage the endpoint.
- Positionnez le sélecteur AVANT de connecter l'appareil approprié au connecteur TP. Ne pas respecter cette procédure pourrait endommager le point de connexion.

XTP position — Select if the transmitting device is an Extron XTP matrix switcher. The input is HDMI with embedded audio plus RS-232 and IR.

DTP position — Select if the transmitting device is an Extron DTP device. The input is HDMI with embedded audio, analog audio, RS-232 and IR, and remote power.

⊙ TP Inputs 7 and 8 − Plug compatible Extron DTP or XTP signals into these RJ-45 ports using STP cables. See TP connectors on page 10 to wire the connectors.



ATTENTION:

- Do not connect this port to a computer data or telecommunications network.
- Ne connectez pas ces port à des données informatiques ou à un réseau de télécommunications.

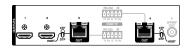


Figure 3. Video Output Features

• HDMI Output 1 and 2 — Plug HDMI video displays (or DVI with appropriate adapters) into these ports. See HDMI connectors on page 9 to secure the connector to the board with a Locklt HDMI Cable Lacing Bracket.



TP (XTP/HDBT/DTP switches, outputs 3 and 4 -

DTP HDB1

ATTENTION:

- Position this switch BEFORE connecting the appropriate device to the TP connector. Failure to comply can damage the endpoint.
- Positionnez le sélecteur AVANT de connecter l'appareil approprié au connecteur TP. Ne pas respecter cette procédure pourrait endommager le point de connexion.

XTP position — Select if the receiving device is an Extron XTP matrix switcher. The output is HDMI with embedded audio plus RS-232 and IR.

HDBT position — Select if the receiving device is a HDBaseT-enabled device. The output is HDMI with embedded audio plus RS-232 and IR.

DTP position — Select if the receiving device is an Extron DTP device. The TP output is compatible with a DTP receiving device and consists of HDMI with embedded audio, analog audio, RS-232 and IR, and remote power.

▼ TP Outputs 3 and 4 — Plug compatible Extron DTP receivers, XTP matrix switchers, or HDBaseT-enabled devices into these RJ-45 ports using STP cables. See TP connectors on page 10 to wire the connector.



ATTENTION:

- Do not connect this port to a computer data or telecommunications network.
- Ne connectez pas ces port à des données informatiques ou à un réseau de télécommunications.

Audio Inputs and Outputs

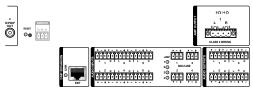


Figure 4. Video Output Features

Audio Inputs 1 through 6 — Plug balanced or unbalanced stereo audio inputs into these 3.5 mm, 5-pole captive screw connectors (see Local and Mic/line audio connectors on page 13 to wire the connectors).



Mic/Line Inputs 1 through 4 — Plug microphones or other mono audio inputs into these 3-pole, 3.5 mm captive screw connectors (see Local and Mic/line audio connectors on page 13 to wire the connectors).



+48 V (phantom power) LEDs — Light to indicate +48 V phantom power is switched on via software.



• Audio Outputs 1 through 4 — Plug audio devices such as an audio amplifier or powered speakers to these 3.5 mm, 5-pole captive screw connectors (see Local and Mic/line audio connectors on page 13 to wire the connectors).



Amp Output 1 (stereo audio model) — Plug passive, 4-ohm or 8-ohm speakers to this 5 mm 4-pole captive screw connector to receive the amplified audio from output 1.



• Amp Output 1 (mono audio model, see figure 5) —Connect passive, speakers to this 2-pole captive screw connector to receive the amplified audio from output 1.



Figure 5. Mono Audio Amplified Output Blocks

S/PDIF Output 4 — Plug a compatible device into this RCA connector with a 75-ohm digital audio cable to receive digital audio signal from the output 4 digital stream.



⚠ DMP Expansion Port and LED —



Expansion Port — Plug an STP cable between this port and the Expansion port on an optional Extron DMP 128 ProDSP Digital Matrix Processor.

Link LED — Lights to indicate that the port is connected to a compatible device.

Serial and IR Insertion Connections

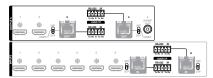


Figure 6. Serial and IR Insertion Connections

Over TP (Inputs 7 and 8) Ports — Plug serial RS-232 signals, modulated IR signals, or both into these 3.5 mm, 5-pole captive screw connectors to insert bidirectional RS-232 and IR communications. See RS-232 and IR connectors on page 13 to wire the connectors.



Over TP (Outputs 3 and 4) Ports — Plug serial RS-232 signals, modulated IR signals, or both into these 3.5 mm, 5-pole captive screw connectors to insert bidirectional RS-232 and IR communications. See RS-232 and IR connectors on page 13 to wire the connectors.



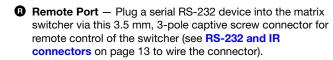
Control Connections





Figure 7. IPCP Control Processor and Remote Port

PCP control processor — The DTP CrossPoint 84 includes a built-in IPCP control processor that can control and monitor a variety of external devices. The IPCP offers RS-232 and IR-based control, relays, and digital I/O controls. See the IPCP Pro Series Setup Guide, included in the carton with the switcher to make all connections and to configure and operate the IPCP control processor.





Switcher Reset

Switcher Reset button and LED — Initiates four levels of matrix switcher reset. For different reset levels, press and hold the recessed button while the switcher is running or while you power up the switcher.



See the *DTP CrossPoint 84 IPCP Series User Guide*, available at **www.extron.com**.

Power

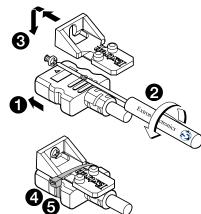
● Power connector — Plug the switcher into a grounded AC source.

Additional Connector Information

HDMI connectors

Use a Locklt Lacing Bracket to securely fasten each HDMI cable to the switcher as follows.

- 1. Plug the HDMI cable into the panel connection.
- Loosen the HDMI connection mounting screw from the panel enough to allow the LockIt lacing bracket to be placed over it. The screw does not have to be removed.
- Place the Locklt lacing bracket on the screw and against the HDMI connector, then tighten the screw to secure the bracket.



ATTENTION:

- Do not overtighten the HDMI connector mounting screw. The shield it fastens to is very thin and can easily be stripped.
- Ne serrez pas trop la vis de montage du connecteur HDMI.
 Le blindage auquel elle est attachée est très fin et peut facilement être dénudé
- Loosely place the included tie wrap around the HDMI connector and the Locklt lacing bracket as shown.
- 5. While holding the connector securely against the lacing bracket, use pliers or similar tool to tighten the tie wrap, then remove any excess length.

TP connectors

All RJ-45 ports, whether DTP ports, the Expansion port, and the LAN (Ethernet) ports on the IPCP control processor use twisted pair cables (see figure 8).

- Patch (straight) cable -
 - DTP input and output ports Shielded twisted pair (STP) for connection to Extron DTP transmitters and receivers, XTP matrix switchers, or HDBaseT-enabled devices.
 - Expansion port STP for connection between the matrix switcher and a DMP 128. A shielded 1-foot cable is included with the DMP 128.
 - LAN ports Unshielded twisted pair (UTP) or STP for connection of the LAN port to an Ethernet LAN.
- Crossover cable (see figure 8)
 - LAN ports UTP or STP for direct connection between the DTP CrossPoint 84 matrix switcher and a connected computer.

Straight-through Cable
DTP I/O Ports, Expansion Port, and LAN Ports

Pin	End 1 Wire color	End 2 Wire color
1	White-orange	White-orange
2	Orange	Orange
3	White-green	White-green
4	Blue	Blue
5	White-blue	White-blue
6	Green	Green
7	White-brown	White-brown
8	Brown	Brown

T568B T568B
A cable that is wired the same at both ends is called a "straight-through" cable, because no pin/pair assignments are swapped.

Crossover Cable LAN Ports

Pin	End 1 Wire color	End 2 Wire color			
1	White-green	White-orange			
2	Green	Orange			
3	White-orange	White-green			
4	Blue	Blue			
5	White-blue	White-blue			
6	Orange	Green			
7	White-brown	White-brown			
8	Brown	Brown			
	T568A T568B				

A cable that is wired as T568A at one end and T568B at the other (Tx and Rx pairs reversed) is a "crossover" cable.

Figure 8. RJ-45 Connector and Pinout Tables

NOTES:

- Do not use standard telephone cables. Telephone cables do not support Ethernet or Fast Ethernet.
- Do not stretch or bend cables. Transmission errors can occur.

LAN ports

The LAN ports require Category (CAT) 3, CAT 5e, or CAT 6a unshielded twisted pair (UTP) or shielded twisted pair (STP) cables, crossover or patch cables.

The cable used depends on your network speed. The switcher LAN port supports both 10 Mbps (10Base-T — Ethernet) and 100 Mbps (100Base-T — Fast Ethernet), half-duplex and full-duplex Ethernet connections. Input and output boards support 100Base-T only.

- 10Base-T Ethernet requires CAT 3 UTP or STP cable at minimum.
- 100Base-T Fast Ethernet requires CAT 5e UTP or STP cable at minimum.

See the IPCP Pro Series User Guide at www.extron.com to make all network connections and to configure and operate the IPCP control processor.

DTP and Expansion ports

The DTP input and output ports are compatible with Extron XTP DTP 24 SF/UTP cables, as well as CAT 5e, 6, 6a, and 7 shielded twisted pair (F/UTP, SF/UTP, and S/FTP) cable. The Expansion port requires CAT 5e, 6, 6a, or 7 shielded twisted pair cable.

For the Expansion port only -

ATTENTION:

- Connect this port to the Expansion port on a compatible Extron DMP processor. Do NOT connect this port to a LAN or Power over Ethernet port; equipment damage can occur.
- Connectez ce port au port d'expansion sur un processeur DMP d'Extron compatible. Ne connectez PAS ce port à un port LAN ou d'alimentation via Ethernet ; le matériel pourrait être endommagé.

Connector

Pins:

For the DTP ports only -

Extron recommends the following practices to achieve full transmission distances up to 330 feet (100 m) and reduce transmission errors.

Use the following Extron XTP DTP 24 SF/UTP cables and connectors for the best performance:

XTP DTP 24/1000	Non-Plenum 1000' (305 m) spool	22-236-03
XTP DTP 24P/1000	Plenum 1000' (305 m) spool	22-235-03
XTP DTP 24 Plug	Package of 10	101-005-02

If not using XTP DTP 24 cable, at a minimum, Extron recommends 24 AWG, solid conductor, STP cable with a minimum bandwidth of 400 MHz.

Terminate cables with shielded connectors to the TIA/EIA T568B standard only (patch cables, see **figure 8** on page 10).

Limit the use of more than two pass-through points, which may include patch points, punch down connectors, couplers, and power injectors. If these pass-through points are required, use CAT 6 or 6a shielded couplers and punch down connectors.

ATTENTION:

- Do not connect these boards to a computer data or telecommunications network.
- Ne connectez pas ces port à des données informatiques ou à un réseau de télécommunications.
- Do not use Extron UTP23SF-4 Enhanced Skew-Free AV UTP cable or STP201 cable to link the matrix switcher to Extron DTP or XTP products or HDBaseT-enabled devices.
- N'utilisez pas le câble AV Skew-Free UTP version améliorée UTP23SF d'Extron ou le câble STP201 pour relier la grille de commutation avec des produits XTP ou DTP d'Extron, ou des appareils équipés HDBaseT.
- To ensure FCC Class A and CE compliance, STP cables and STP connectors are required.
- Afin de s'assurer de la compatibilité entre FCC Classe A et CE, les câbles STP et les connecteurs STP sont nécessaires.

NOTE: When using cable in bundles or conduits, consider the following:

- Do not exceed 40% fill capacity in conduits.
- Do not comb the cable for the first 20 meters, where cables are straightened, aligned, and secured in tight bundles.
- Loosely place cables and limit the use of tie wraps or hook and loop fasteners.
- Separate twisted pair cables from AC power cables.

Local and Mic/line audio connectors

Use the supplied tie-wrap to strap the audio cable to the extended tail of the connector.

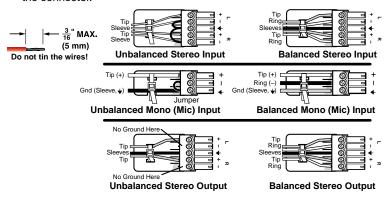


Figure 9. Audio Input and Output Connector Wiring

ATTENTION:

- For unbalanced audio output, connect the sleeves to the ground contact. DO NOT connect the sleeves to the negative (-) contacts.
- Pour l'audio asymétrique, connectez les manchons au contact au sol. Ne PAS connecter les manchons aux contacts négatifs (-).

NOTES:

- The length of exposed wires is important. The ideal length is 3/16 inch (5 mm).
 - If the stripped section of wire is longer than 3/16 inch, the exposed wires may touch, causing a short circuit.
 - If the stripped section of wire is shorter than 3/16 inch, wires can be easily pulled out even if tightly fastened.
- Do not tin the power supply leads. Tinned wires are not as secure in the connector and could be pulled out.

RS-232 and IR connectors

Figure 10 shows how to wire the RS-232 and IR connector.

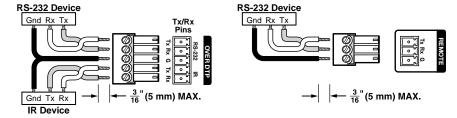


Figure 10. RS-232 and IR Connector Wiring

NOTE: The length of exposed wires is important (see the audio connectors **NOTES** above for more information).

Front Panel

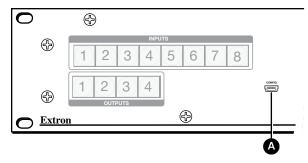


Figure 11. Front Panel Configuration Port

Configuration port — This mini USB B port serves a similar communications function as the rear panel Remote port, but it is easier to access than the rear port after the matrix switcher has been installed and cabled.

NOTE: A front panel Configuration port connection and a rear panel Remote port connection can both be active at the same time. If commands are sent simultaneously to both, the command that reaches the processor first is handled first.

Front Panel Operations

This section describes simple DTP CrossPoint matrix switcher operation from the front panel. Topics that are covered include:

- Creating a Tie
- Recalling a Preset
- Viewing Ties (and Muting Outputs)
- Viewing and Adjusting Volume and Mic Volume
- Setting the Front Panel Locks (Executive Modes)

Creating a Tie

NOTES:

- A "tie" is an input-to-output connection.
- A "set of ties" is an input tied to two or more outputs. (An output can never be tied to more than one input.)
- A "configuration" is one or more ties, one or more sets of ties, or a combination.
- 1. Press and release the Esc button to clear any input button, output button, or control button indicators that may be lit.
- Press and release the Video and Audio I/O buttons to select or deselect video, audio, or both as desired.



NOTE: Audio or video can be broken away (tied by itself) by selecting only the Video button or only the Audio button.

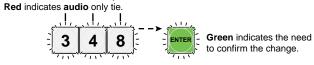
3. Press and release the desired input button.

The button lights to indicate the selection.



4. Press and release the desired output buttons.

Amber indicates video and audio tie.
Green indicates video only tie.

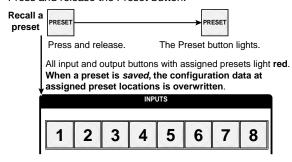


5. Press and release the Enter button. All button indicators turn off.

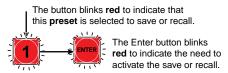
Recalling a Preset

A "preset" is a configuration that has been stored.

1. Press and release the Preset button.



2. Press and release the desired input or output button.



3. Press and release the Enter button.

Viewing Ties (and Muting Outputs)

 Press the View button. Output buttons light for outputs that have no ties established.

NOTE: If an output button blinks, the output indicated by that button is muted. If only the Video or Audio button is lit, only the video or HDMI audio is muted. *To toggle mute on and off*, press and hold the output button for 2 seconds.

- 2. Press an input button. The buttons for all tied outputs light.
- Press an output button. The buttons for the tied input and all tied outputs light.
- Press the View button again to exit View mode. All input and output buttons return to an unlit state.

Viewing and Adjusting Volume and Mic Volume

Rotate the applicable knob clockwise to increase the program volume or mic volume. Rotate the knob counterclockwise to decrease volume.





The LED ladder indicates the approximate volume; the more LEDs are lit, the higher the volume.

Setting the Front Panel Locks (Executive Modes)

The matrix switcher has three levels of front panel security lock that limit the operation of the switcher from the front panel. The three levels are:

- Lock mode 0 The front panel is completely unlocked.
- Lock mode 1 All functions are locked from the front panel (except for setting Lock mode 2). Some functions can be viewed.
- Lock mode 2 Basic functions are unlocked. Advanced functions are locked and can be viewed only.

Basic functions consist of:

- Making ties
- Recalling presets
- Setting audio volume
- Changing Lock modes

Advanced functions consist of:

- Setting audio output mutes
- Setting front panel configuration

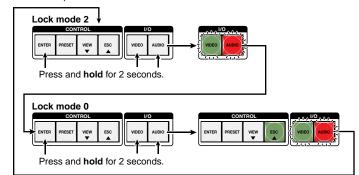
The switcher is shipped from the factory in Lock mode 2.

Selecting Lock Mode 2 or Toggling Between Mode 2 and Mode 0

NOTES:

- If the switcher is in Lock mode 0 or mode 1, this procedure selects mode 2. The Esc, Video, and Audio buttons flash twice.
- If the switcher is in Lock mode 2, this procedure selects mode 0 (unlocks the switcher). The Video and Audio buttons flash twice.

Toggle the lock on or off by pressing and holding the Enter, Video, and Audio buttons simultaneously until the buttons flash (approximately 2 seconds).

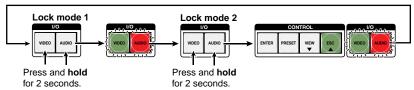


Selecting Lock Mode 2 or Toggling Between Mode 2 and Mode 1

NOTES:

- If the switcher is in Lock mode 0 or mode 1, this procedure selects mode 2. The Esc, Video, and Audio buttons flash twice.
- If the switcher is in Lock mode 2, this procedure selects mode 1. The Video and Audio buttons flash twice.

Toggle the lock on and off by pressing and holding the Video button and the Audio button simultaneously for approximately 2 seconds.



Remote Control

This section describes using the remote control features of the DTP CrossPoint matrix switchers to control the devices. Topics that are covered include:

- Selected SIS Commands
- Installing and Starting the Control Programs
- Accessing the HTML Pages

Selected SIS Commands

You can use Simple Instruction Set (SIS) commands for operation and configuration of the switchers (see SIS Command and Response Table for Matrix Switcher Commands on page 21). You can run these commands from a PC connected to an Ethernet port on the IPCP control processor (item 0 on page 8), serial port (item 0 on page 8), or USB port (item 4 on page 14) on the switcher.

Establishing a Network (Ethernet) Connection

NOTE: The first time you connect to the switcher via the LAN port, you may need to change the default settings (IP address, subnet mask, and [optional] administrator name and password) of the

Establish a network connection as follows:

1. Open a TCP socket to port 23 using the IP address of the switcher.

NOTE: The factory default IP address is 192.168.254.254.

The switcher responds with a copyright message including the name, firmware version, and part number of the product, and the current date and time.

NOTES:

- If the switcher is not password-protected, the device is now ready to accept SIS commands.
- If the switcher is password-protected, a password prompt appears.
- 2. If necessary, enter the appropriate password.

If the password is accepted, the switcher responds with Login User or Login Administrator.

If the password is not accepted, the Password prompt reappears.

Number of Connections

A switcher can have up to 200 simultaneous TCP connections, including all HTTP sockets and Telnet connections. When the connection limit is reached, the switcher accepts no new connections until some have been closed. No error message or indication is given that the connection limit has been reached. To maximize the performance of your switcher, keep the number of connections low and close unnecessary open sockets.

Establishing a USB Port Connection

A standard USB cable and the Extron DataViewer utility, version 2.0 or newer, can be used for connection to the DTP CrossPoint matrix switcher Configuration port. The USB cable, available at any local electronics store, should be terminated on one end with a mini USB B male connector.

NOTE: Before you use the USB port for the first time, install the USB driver on your computer. The simplest way to do this is to install the Product Configuration Software and then run the Found New Hardware Wizard.

Host-to-Switcher Instructions

The switcher accepts SIS commands through its serial port, its USB port, or its LAN port. SIS commands consist of one or more characters per command field. They do not require any special characters to begin or end the command character sequence. Each switcher response to an SIS command ends with a carriage return and a line feed (CR/LF =), which signals the end of the response character string. A string is one or more characters.

NOTE: The tables that begin on the next page are a partial list of SIS commands. For a complete listing, see the *DTP CrossPoint 84 IPCP Series User Guide*.

Common SIS Command Symbols

The following symbols are used throughout the command and response table, which starts on the next page:

- = Space
- = Carriage return and line feed
- = Carriage return (no line feed)
 - = Pipe (can be used interchangeably with the ← character)
- Esc = Escape key (hex 1B)
- W = Can be used interchangeably with the Esc character

SIS Command and Response Table for Matrix Switcher Commands

Command	SIS Command (Host to Unit)	Response (Unit to Host)	Additional Description
Create ties			
NOTES: • Commands can be enter	ered back-to-back in a string	, with no spaces. For exampl	e: 1*1!Ø2*Ø2\$Ø3*Ø3%4*4\$.
 The matrix switchers su 	pport 1- and 2-digit numeric	entries (1*1! or Ø2*Ø2%).	
 Audio breakaway comm 	nand functions are dependen	t on the audio routing selecti	ions of the inputs and outputs.
Tie input X1 video and audio to output X2	X1 *X2	Out <u>X2</u> •In <u>X1</u> •All←	Tie the video and audio from input X1 to output X2.
Example:	1*3!	OutØ3•InØ1•All ←	Tie input 1 to output 3.
Tie input X1 to output X2, video Example:	X1]*X2% 7*5%	OutX2•InX1•Vid← OutØ5•InØ7•Vid←	Tie input 1 video to output 2. Audio is broken away. Tie input 7 video to output 5.
Tie input 🗓 to output 🗷, audio Example:	x11*x2\$ 2*Ø4\$	Out x2 •In X1 •Aud ← OutØ4•In2•Aud ←	Tie input 🔀 audio to output 🔀 Audio is broken away. Tie input 2 audio to output 4.
Tie input X1 to all outputs	X1*!	In⊠•All←	X1 *% and X1 *\$ are also valid.
Quick multiple tie	Esc +QX1]*X2!X1]*X2\$	← Qik ←	Enter multiple tie commands (¹, %, and \$) before the ←.
Read video output tie	X2%	X1	Video input ☒1 is tied to output ☒2. ☒2\$ is also valid for aud
Video mutes			
Video only mute	X2*1B	Vmt <u>x2</u> *1 ←	Mute output 🗵 video (sync remains active).
Video and sync mute	X2*2B	Vmt x 2*2 ←	Mute output № video and sync.
Video unmute	X2*ØB	Vmtx2*Ø ←	Unmute output ☒️ (video and sync on).
Read video mute	X2B	<u>x3</u> ←	
Global video mute	1*B	Vmt1←	Mute all video outputs.
Global video unmute	Ø*B	VmtØ←	Unmute all video outputs.
NOTE:	ØØ – Ø8 (ØØ = untied) Ø1 – Ø4 Ø = off (unmuted)	1 = video muted	2 = video and sync muted

SIS Command (Host to Unit)	Response (Unit to Host)	Additional Description
Esc IX1HDCP←	X4	
Esc I *HDCP←	X4 ¹ X4 ² X4 ³ X4 ⁸ ◀	
Esc 0X2HDCP←	X5 ←	
Esc 0*HDCP←	X5 ¹ X5 ² X5 ³ X5 ⁴ ←	
orized device		
EscEX1*1HDCP←	HdcpEX1*1 ←	Set the input as an HDCP authorized device.
EscEX1*ØHDCP←	HdcpEX1*Ø◆	Set the input as not an HDCP authorized device.
Esc EX1HDCP←	X6 ←	Show HDCP authorized device status.
X7*A	Img <mark>X7</mark> ←	
cessing (DSVP)		
ØLS	X8 ¹ X8 ² X8 ³ X8 ⁸ ←	Eight K8; each is the signal status of an input, starting fro input 1.
ØLS	no input detected in	put detected
		DCP compliant 2 = source is not HDCP compliant
	(Host to Unit) Esc I X1 HDCP ← Esc I * HDCP ← Esc O X2 HDCP ← Esc O * HDCP ← Drized device Esc EX1 * 1 HDCP ← Esc EX1 * ØHDCP ← ESC EX1 + ØHDC	(Host to Unit) (Unit to Host) Esc X1 HDCP ←

- 1	NOTE:	X1 = Input number	Ø1 – Ø8	8	
		🗵 = Output number	Ø1 – Ø4		
		X4 = HDCP status (for inputs)	Ø = no source connected 1 = source is HDCP compliant 2 = source is not HDCP compliant		
		■ HDCP status (for outputs)	Ø = No monitor connected		
			1 = Monitor connected but does not support HDCP	000000	
-			2 = Monitor connected, supports HDCP, but the video signal is not encrypted	00000	
			7 = Monitor connected, supports HDCP, and the video signal is encrypted		
		x ∈ HDCP authorized device	$\emptyset = \text{off}$ 1 = on (default)		
		= TP (scaled) output number	Ø3 or Ø4	000000	
		■ Signal detection status	Ø = no input connected 1 = input connected	0000000	
•	***************************************	***************************************		,å	

Command	SIS Command (Host to Unit)	Response (Unit to Host)	Additional Description
Input audio selection			
Input audio selection	EscIX1*X9AFMT←	AfmtI <u>X1</u> *X9←	
Example: Esc I1*ØAFMT← AfmtI1*Ø← Auto (Ø): Digital audio takes priority over an		Auto (Ø): Digital audio takes priority over analog audio.	
View input audio selection	Esc I X1 AFMT ←	<u>x</u> 9 ←	
View input audio all selections	Esc IAFMT ←	<u>x9</u> ¹ <u>x9²x9</u> ³ <u>x9</u> 8 ←	Each 函 is the auto, analog, or HDMI selection of an audio input, starting at input 1.
Group master level (volume a	nd mute)		
Other group masters (s	up 1 controls the program vo such as mutes) must have be	• .	figurator program to be available as 📶 s for SIS commands.
Set gain (+) or attenuation (-) dB	EscDX10*±X11GRPM←	GrpmD <u>x10</u> * <u>x11</u> ←	Specify + for gain or - for attenuation.
value	<u> </u>	. — —	
• , ,	EscD1*+5ØGRPM←	GrpmD1*5Ø♣️	Specify 5 dB level for group 1 (program volume).
value Example:	<u> </u>	GrpmD1*5Ø◀┛ GrpmD <u>X10</u> * <u>X11</u> ◀┛	Specify 5 dB level for group 1 (program volume). Increase master 1210 by 1211.
value Example: Increment dB value	EscD1*+5ØGRPM← EscDX10*X11+GRPM←	GrpmD1*5Ø♣️	Specify 5 dB level for group 1 (program volume). Increase master X10 by X11.
value Example: Increment dB value Example:	EscD1*+5ØGRPM← EscDX10*X11+GRPM← EscD1*75+GRPM←	GrpmD1*5Ø← GrpmD <u>X10</u> * <u>X11</u> ← GrpmD1*125←	Specify 5 dB level for group 1 (program volume). Increase master [X10] by [X11]. Increase group 1 (program volume) by 7.5 dB (to 12.5 dB)
value Example: Increment dB value Example: Decrement dB value	Esc]D[1*+5ØGRPM← Esc]D[X10]*[X11]+GRPM← Esc]D[1*75+GRPM← Esc]D[X10]*[X11]-GRPM←	GrpmD1*50← GrpmD <u>X10</u> * <u>X11</u> ← GrpmD1*125← GrpmD <u>X10</u> * <u>X11</u> ←	Specify 5 dB level for group 1 (program volume). Increase master 110 by 111. Increase group 1 (program volume) by 7.5 dB (to 12.5 dB).
value Example: Increment dB value Example: Decrement dB value View master value	EscD1*+5ØGRPM← EscDX10*X11+GRPM← EscDX10*X11-GRPM← EscDX10*X11-GRPM← EscDX10GRPM←	GrpmD1*50← GrpmD <u>X10</u> * <u>X11</u> ← GrpmD <u>X10</u> * <u>X11</u> ← GrpmD <u>X10</u> * <u>X11</u> ← X11	Specify 5 dB level for group 1 (program volume). Increase master 10 by 11. Increase group 1 (program volume) by 7.5 dB (to 12.5 dB). Decrease master 110 by 111.
value Example: Increment dB value Example: Decrement dB value View master value Set mute or unmute	EscD1*+5ØGRPM← EscDX10*X11+GRPM← EscDX10*X11-GRPM← EscDX10*X11-GRPM← EscDX10GRPM← EscDX10GRPM←	GrpmD1*5Ø← GrpmD <u>X10</u> * <u>X11</u> ← GrpmD <u>X10</u> * <u>X11</u> ← GrpmD <u>X10</u> * <u>X11</u> ← <u>X11</u> ← GrpmD <u>X10</u> * <u>X3</u> ←	Specify 5 dB level for group 1 (program volume). Increase master X10 by X11. Increase group 1 (program volume) by 7.5 dB (to 12.5 dB). Decrease master X10 by X11.

1 = HDMI (de-embedded digital audio) (default)

 \emptyset 1 – 16 (can be a user-defined alias enclosed in brackets {}) dB value in 0.1 increments. Example: $\boxed{\texttt{K11}} = 5\emptyset = 5$ dB.

Command	SIS Command (Host to Unit)	Response (Unit to Host)	Additional Description
Recall a preset			
Recall a preset	X13.	Rpr x13 ←	Recall preset 1213.
View video and audio mutes			
View output mutes	Esc VM ←	X14 ¹ X14 ² X14 ⁴	Each X14 response is the mute status of an output, starting from output 1.
Example:	Esc VM ←	Ø221 ←	Output 1 is unmuted. Audio is muted on outputs 2 and 3, video is muted on output 4.
Lock (Executive) modes			
NOTE: See Setting the Front Pan	el Locks (<i>Executive</i> N	Modes) on page 17 for m	ore information on the Lock modes.
Lock all front panel functions	1X	Exe1 ←	Enable Lock mode 1.
Lock advanced front panel functions	2X	Exe2 ←	Enable Lock mode 2.
Unlock all front panel functions	ØX	ExeØ←	Enable Lock mode 0.
View lock status	Χ	X15 ←	
Information requests			
Information request	I	DTPCP84←	
Request part number	N	6Ø-nnnn-nn ←	See the Extron website for part number.
Query firmware version	Q	X16 ←	
Example:	Q	1.23←	The factory-installed controller firmware version is 1.23 (sample value only).

NOTE:	X13 = Preset	Ø1 through 32		
	X14 = Video and audio mute status	Ø = no mutes	2 = audio mute	
		1 = video mute	3 = video and audio mute	
	X15 = Lock mode	\emptyset = lock mode 0 (unlocked)	1 = lock mode 1	2 = lock mode 2 (default)
	X16 = Firmware version number to secon	d decimal place (x.xx)		

Installing and Starting the Control Programs

Several useful Windows-based programs are available on the Extron website, including the Digital Signal Processor (DSP) Configurator program, the Product Configuration Software (PCS), and the Firmware Loader program.

The Product Configuration Software configures the video functions of the switcher.

The DSP Configurator program is required for full operation of the DSP functions of the switchers and to save presets. It also provides some limited control of the non-DSP functions of the switcher. See the *DTP Crosspoint 84 User Guide* and the program Help file for more information.

Run either program from a PC connected to an Ethernet port on the IPCP control processor (item ① on page 8), serial port (item ③ on page 8), or USB port (item ④ on page 14) on the switcher.

NOTES:

- For details on operating the program, see the DTP CrossPoint 84 Switcher User Guide.
- The DSP Configurator program has a software switch that allows you to lock out audio adjustments in the Product Configurator Software, making them unavailable for selection.

Installing the programs

The DSP Configurator, version 2.6 or newer; PCS, version 2.0 or newer; and Firmware Loader are available on the Extron website. Download and install all programs as follows:

1. Visit www.extron.com and click the Download tab.



- 2. Click the Software link.
- 3. Select the desired software to download and click **Download**.

TIP: Jump to the nearest page of downloads by clicking the desired filtering letter.



The Download Center dialog box appears (see figure 12, on the next page).



Figure 12. Download Center Dialog Box

4. Enter the requested personal information;

TIP: Click Remember Me to eliminate step 4 in future downloads.

Click Download to copy the software or firmware to your computer.
 The download warns you about downloads and asks you to confirm it.



- 6. Cick Run to confirm that you want to run the installation.
- Follow the on-screen instructions. The installation program creates the necessary directories and folders and installs the programs.

Starting the Product Configuration Software

Click Start > Programs > Extron Electronics > Extron
Product Configuration Software > Extron Product
Configuration Software.

The Product Configuration Software opens to the Device Discovery screen.

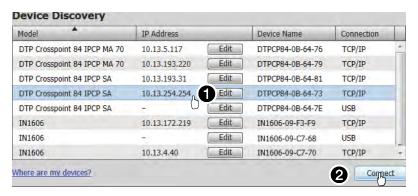


Figure 13. Device Discovery Screen

TIP: You can also launch the Product Configuration Software from the DSP Configurator program, **BUT** PCS can be locked out from within DSP.

2. Select (click) your DTP CrossPoint (1) and click Connect (2).

NOTE: The default IP address is 192.168.254.254.

The Product Configuration Software opens. Operate the program as described in the DTP CrossPoint 84 User Guide, available at **www.extron.com**, and the built-in Help file.

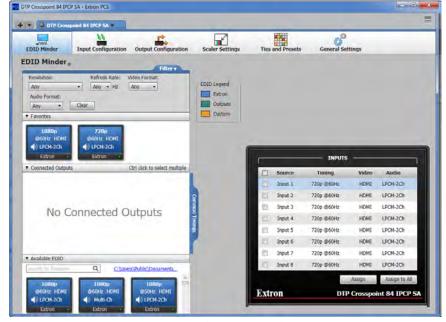


Figure 14. Product Configuration Software

Starting the DSP Configurator Program

The DSP Configurator can connect to the switcher via any rear panel LAN port, the rear panel Remote (RS-232) port, or the front panel Configuration port. The program can operate at 9600, 19200, 38400, or 115200 baud rates for the Remote port.

NOTE: Extron recommends connection via an Ethernet LAN port for the DSP Configurator program.

Start the DSP Configurator program, as follows:

Click Start > Programs > Extron Electronics >
 DSP Configurator > DSP Configurator. The DSP Configurator
 startup screen displays (see figure 15).



Figure 15. DSP Configurator Screen and Device Selection

TIP: You can also launch the DSP Configurator program from within the Product Configuration Software.

If necessary, select the DTP CrossPoint switcher in the drop-down menu and click **0K**.

TIP: If you have only DTP CrossPoint switchers of the same model, click **Always perform the selected operation** to eliminate step 2 in future startups.

The DSP Configurator program starts in *Emulate* mode (see **figure 16** on the next page).

NOTE: In *Emulate* mode, changes and settings are stored in the PC and not sent to the switcher until you select **Live** mode and "push' the settings to the switcher. See the *DTP CrossPoint 84 Switcher IPCP User Guide*.

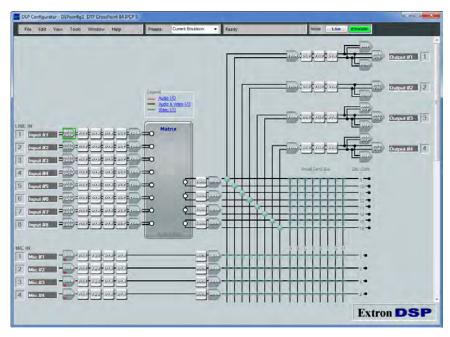


Figure 16. DSP Configurator

Accessing the HTML Pages

NOTES:

- If your Ethernet connection to the matrix switcher is unstable, try turning off the proxy server in your web browser. In Microsoft Internet Explorer, click Tools > Internet Options > Connections > LAN Settings, uncheck the Use a proxy server... box, and then click OK.
- For details on operating the switcher via HTML pages, see the "HTML Operation" section in the DTP CrossPoint 84 IPCP User Guide.
- 1. Start the web browser program.

NOTE: For best results, Extron recommends the following browsers and compatibility mode:

- Microsoft® Internet Explorer®, version 8.0 or newer, with compatibility mode off
- Mozilla® Firefox®, version 6 or newer
- Google® Chrome®, version 9 or newer
- Apple® Safari®, version 4 or newer
- 2. Click in the Address field and enter the IP address.

NOTE: 192.168.254.254 is the factory-specified default value for this field.

- Press the keyboard <Enter> key. The switcher checks whether it is password-protected.
 - If the switcher is not password-protected, it checks and downloads the HTML start-up page. The switcher is ready for operation via HTML remote control.

If the switcher is password-protected, it downloads the Enter Network Password dialog box (see figure 17).



Figure 17. Network Password Dialog Box

NOTE: A User name entry is not required.

 Enter the appropriate administrator or user password in the Password field and click 0K.

The switcher downloads the HTML start-up page (see figure 18). The switcher is ready for operation via HTML remote control.

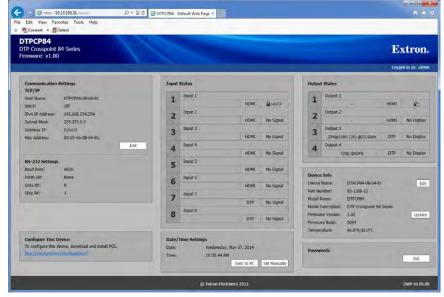


Figure 18. HTML Startup Page

Extron Warranty

Extron Electronics warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials. Extron Electronics will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

USA. Canada. South America. and Central America:

Extron Electronics 1230 South Lewis Street Anaheim, CA 92805 U.S.A.

Europe and Africa:

Extron Europe Hanzeboulevard 10 3825 PH Amersfoort The Netherlands

Asia:

Extron Asia Pte Ltd 135 Joo Seng Road, #04-01 PM Industrial Blda. Singapore 368363 Singapore

Japan:

Extron Electronics, Japan Kyodo Building, 16 Ichibancho Chiyoda-ku, Tokyo 102-0082 Japan

China:

Extron China 686 Ronghua Road Songiiang District Shanghai 201611 China

Middle East:

Extron Middle East Dubai Airport Free Zone F12. PO Box 293666 United Arab Emirates, Dubai

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions, or if modifications were made to the product that were not authorized by Extron.

NOTE: If a product is defective, please call Extron and ask for an application engineer to receive an RA (return authorization) number. This will begin the repair process.

USA: 714.491.1500 or 800.633.9876 Europe: 31.33.453.4040 **Asia**: 65.6383.4400 Japan: 81.3.3511.7655

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.

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Extron USA - West +1.714.491.1500 +1.714.491.1517 FAX	Extron USA - East +1.919.850.1000 +1.919.850.1001 FAX	+31.33.453.4050 FAX +91.80.3055.3737 FAX Extron Japan Extron China +81.3.3511.7655 +4000.EXTRON +81.3.3511.7656 FAX +4000.398766	Extron China +4000.EXTRON +4000.398766
Extron Asia +800.7339.8766 Inside Asia Only +65.6383.4400 +65.6383.4664 FAX	Extron Middle East +971.4.2991800 +971.4.2991880 FAX	Extron Korea +82.2.3444.1571 +82.2.3444.1575 FAX	Inside China Only +86.21.3760.1568 +86.21.3760.1566 FAX